

Correction of "The Strong Approximation Theorem and Locally Bounded Topologies of Algebraic Function Fields"

by

Mikihiko ENDO

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We shall use the same notations as in [1].

As the examples shows ([2](2.2) und (4.5)), the boundedness of the constant field F does not follow from the triviality of the topology T on F . Therefore, in the formulation of Theorem 4, we need the assumption that "the constant field F is bounded under the topology T ."

Further, there are some misprints and errors:

p. 82, 4-th line from the top: read " $n(\alpha) = \sum v_p(\alpha_p) = \sum n(p) \cdot \text{ord}_p \alpha_p$ " instead of " $n(\alpha) = \sum v_p(\alpha_p) = \sum f_p \cdot \text{ord}_p \alpha_p$."

p. 85, 10-th line from the bottom: read " $B_1 = \{a_0, a_1, \dots, a_N, t\} \cup F$ " instead of " $B_1 = \{a_0, a_1, \dots, a_N, t\}$."

p. 85, 8-th and 6-th lines from the bottom: read " $v_p(a_0^{-n}x) \geq 0$ " and " $a_0^{-n}x \in O(P_0)$ " instead of " $v_p(a^{-n}x) \geq 0$ " and " $a^{-n}x \in O(P_0)$."

I express my thanks to Professor Hans Weber for the corrections.

References

- [1] ENDO, M.; The strong approximation theorem and locally bounded topologies of algebraic function fields, *Comment. Math. Univ. Sancti Pauli*, **30** (1981), 77–86.
- [2] WEBER, H.; Topologische Charakterisierung globaler Körper und algebraischer Funktionenkörper in einer Variablen, *Math. Z.*, **169** (1979), 167–177.

Department of Mathematics
Rikkyo University
Tokyo, Japan